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	Application No.	Applicant(s)		
Notice of Allowability	00/072 122	VAMAZAKI ET AI	YAMAZAKI ET AL.	
	09/973,133 Examiner	Art Unit	-	
	Decade Kabada	2022		
	Brook Kebede	2823		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in) or other appropriate commu RIGHTS. This application is s	this application. If not included inication will be mailed in due co	urse. THIS	
1. $igstyle igstyle$ This communication is responsive to $\underline{\textit{theamendment filed}}$	on November 3, 2005.			
2. $igtimes$ The allowed claim(s) is/are <u>9-11,17-19,33-35,59-61 and 6</u>	<u>84-78</u> .			
 Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).		
		n No		
3. ☐ Copies of the certified copies of the priority do			n from the	
International Bureau (PCT Rule 17.2(a)).	odinono nave been received	in the national stage application	1110111 1110	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requi	rements	
4. A SUBSTITUTE OATH OR DECLARATION must be submitted in the submitted in			TICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.			
(a) ☐ including changes required by the Notice of Draftsper		(PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_•			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or	in the Office action of		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ick) of	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			e the	
Attachment(s) 1. Notice of References Cited (PTO-892)	5 □ Notice of Int	formal Patent Application (PTO-1	152\	
 Notice of References Cited (F10-032) District Notice of Draftperson's Patent Drawing Review (PT0-948) 	6. ☐ Interview St	ımmary (PTO-413),	<i>VL</i> _j	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./	Mail Datè ^ Amendment/Comment		
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's	Statement of Reasons for Allowa	ance	
of Biological Material	9. 🗌 Other	<u>.</u>		
		Brook Kek	ede	

BROOK KEBEDE PRIMARY EXAMINER Application/Control Number: 09/973,133 Page 2

Art Unit: 2823

DETAILED ACTION

Allowable Subject Matter

1. Claims 9-11, 17-19, 33-35, 59-61 and 64-78 are allowed over prior art of record.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

After further search and consideration of the amendment filed on November 3, 2005, it is determined that the prior art of record neither anticipates nor renders obvious the claimed subject matter of the instant application as a whole either taken alone or in combination, in particular, prior art of record does not teach "wherein the first reverse bias voltage and the second reverse bias voltage are selected between zero volt and an avalanche voltage, and wherein magnitude of the second reverse bias voltage is higher lower than magnitude of the first reverse bias voltage," as recited in claims 9, 17, 33, 64, 68, 72 respectively, and "wherein the first reverse bias voltage and the second reverse bias voltage are lower than zero volt, and wherein magnitude of the second reverse bias voltage is lower than magnitude of the first reverse bias voltage," as recited in claim 76.

Claims 10, 11, 18, 19, 34, 35, 59 - 61, 65 - 67, 69 - 71, 73 - 75, 77 and 78 are also allowed as being dependent of the allowed base claim.

Conclusion

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/973,133 Page 3

Art Unit: 2823

Correspondence

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brook Kebede whose telephone number is (571) 272-1862. The

examiner can normally be reached on 8-5 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew S. Smith can be reached on (571) 272-1907. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brook Kehede Brook Kebede

Examiner

Art Unit 2823

BK

December 7, 2005